**PATENT** 

Attorney's Docket No.: U 014797-5

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Box Patent Application Assistant Commissioner for Patents** Washington, D.C. 20231

## **NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of Inventor:

KEN-SHWO DAI

WARNING: The Declaration must name all of the actual inventor(s).

For (title):

HUMAN SACH-RELATED GENE VARIANTS ASSOCIATED WITH CANCERS

#### 1. Type of Application

This new application is for a(n) (check one applicable item below):

Original (nonprovisional)

Design

Plant

Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. WARNING:

371(c)(4) unless the International Application is being filed as a divisional, continuation or continuation-in-

part application.

Do not use this transmittal for the filing of a provisional application. **WARNING**:

## **CERTIFICATION UNDER 37 CFR 1.10**

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date SEPTEMBER 2, 2003 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV327549664US addressed to the: Assistant Commissioner of Patents, Washington, D.C. 20231

### JENNIFER RASHKIN

(type or print name of person mailing paper)

(Signature of person mailing paper)

NOTE: Each paper or fee referred to as enclosed herein has the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 CFR 1.10(b).

**WARNING:** Certificate of mailing (first class) or facsimile transmission procedures of 37 CFR 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

(Application Transmittal [4-1]—page 1 of 7)

# 2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or

	applic	cation is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW ICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATIONIS) CLAIMED.				
WARNING:		If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.				
WARNING:		When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional <b>must</b> be filed prior to the Saturday, Sunday or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).				
		The new application being transmitted claims the benefit of prior U.S. application(s) and enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.				
NOTE:	TRAM	e of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION NUMBERS IN APPLICATION IN PARENT ICATION OF THE FILING OF THIS CONTINUATION APPLICATION.				
		Divisional.				
		Continuation.				
		Continuation-in-Part (C-I-P).				
3.	Papers Enclosed That Are Required For Filing Date Under 37 CFR 1.53 (Regular) or 1.153 (Design) Application					
30	<del>23</del>	Pages of specification (including 7 pages of Sequence Listing)  Pages of claims				
	_4	Pages of claims				
	_1_	Pages of Abstract				
	38	Sheets of drawing				
		☑ formal				
		□ informal ·				
WARNING:		<b>DO NOT</b> submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. Comments on proposed new 37 CFR 1.84. Notice of March 9, 1988 (1990 O.G. 57-62).				
NOTE:	docke the d	tifying indicia, if provided, should include the application number or the title of the invention, inventor's name, et number (if any), and the name and telephone number of a person to call if the Office is unable to match rawings to the proper application. This information should be placed on the back of each sheet of drawing himum distance of 1.5 cm. (% inch) down from the top of the page." 37 C.F.R. 1.84(c).				
		(complete the following, if applicable)				
		The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)". 37 C.F.R. 1.84(b).				

4.	Add	litional papers enclosed					
		Preliminary Amendment					
		Information Disclosure Statement (37 CFR 1.98)					
		Form PTO-1449					
		Citations					
		Declaration of Biological Deposit					
		Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.					
		Authorization of Attorney(s) to Accept and Follow Instructions from Representative					
		Special Comments					
		Other					
5.	Dec	laration or oath					
		Enclosed					
		executed by (check all applicable boxes)					
		☐ inventor.					
		☐ legal representative of inventor. 37 CFR 1.42 or 1.43					
		joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.					
		This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee.					
	$\square$	Not Enclosed.					
WARNING:		Where the filing is a completion in the U.S. of an International Application but where a declaration is not available or where the completion of the U.S. application contains subject matter in addition to the International Application the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.					
		Application is made by a person authorized under 37 CFR 1.41(c) on behalf of all the above named inventor. (The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently).					
NOTE:	t is i	important that all the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).					
		Showing that the filing is authorized. (Not required unless called into question. 37 CFR 1.41(d).)					
6.	Inve	entorship Statement					
WARN	VING:	If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.					
	The	inventorship for all the claims in this application are:					
		The same					
		Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,					
7.	Lan	guage					

NOTE: An application including a signed oath or declaration may be filed in a language other than English. A verified English translation of the non-English language application and the processing fee of \$130.00 required by 37 CFR

	1.17(k) is required to be filed with the application or within such time as may be set by the Office. 37 1.52(d).						
NOTE:	A no 1.69		lish oath or declaration in the fo	rm provided or approved by	the PTO need not be translated. 37 CF	FR	
	$\square$	Eng	lish				
		non	ı-English				
			the attached translation	is a verified translation	. 37 CFR 1.52(d).		
8.	Ass	ignm	ent				
		An	assignment of the inventi	on to			
					OR ASSIGNMENT (DOCUMENT N" or □ FORM PTO 1595 is als		
			will follow.				
NOTE:		-	gnment is submitted with a new signment." Notice of May 4, 190		e letters — one for the application and or '	ne	
WARN	NG:	NG: A newly executed "CERTIFICATE UNDER 37 CFR 3.73(b)" must be filed when a continuation-in-pa application is filed by an assignee. Notice of April 30, 1993. 1150 O.G. 62-64.					
9.	Cert	ified	Сору				
	Cert	ified	copy of application				
			Country	Appin. N	o. Filed		
		f	rom which priority is clair	ned			
			is attached.				
			will follow.				
NOTE:			n application forming the basis f 55(a) and 1.63.	or the claim for priority must	be referred to in the oath or declaration	n.	
NOTE:	This item is for any foreign priority for which the application being filed directly relates. If any parent U.S application or International Application from which this application claims benefit under 35 U.S.C. 120 is itseentitled to priority from a prior foreign application then complete item 18 on the ADDED PAGES FOR NEV APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.						
10.	Fee	Calc	ulation (37 CFR 1.16)		ŧ		
	Α.	Ø	Regular Application				
			<del></del>	Claims as Filed			

Number Filed					N	umbe	er E	xtra		Rate	Basic Fee 37 CFR 1.16(a) \$750.00	
Total Claims (37 CFR 1.16(c))				25	- 20	=		5	x	\$	18.00	90.00
Indepe (37 CI				2	- 3	=		0	×	\$	84.00	
Multipl (37 Cl			ent claim(s) )	, if a	ny				+	\$	280.00	
		Ame	endment ca	ncell	ing ext	ra cla	ims e	enc	lose	d.		
		Ame	endment de	eletin	g multi	ple-de	epend	den	cies	en	closed.	
		Fee	for extra c	laims	is not	being	, paic	d at	this	s tir	ne.	
NOTE:	ment	t, prior		tion of	the time	e period	d set f					cancelled by amend- d Trademark Office
							Filir	ng F	ee (	Cald	culation \$	
В.			ign applica 30.00 — 3		R 1.16	(f))	Filir	ng F	ee (	Calo	culation \$	
C.			t applicatio 20.00 — 3		R 1.16	(g))	Filin	ng F	ee (	Cald	culation \$	
11.	Sma	all Ent	tity Statem	ent(s	;)							
	Statement(s) that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is(are) attached or has been filed.											
		Filing Fee Calculation (50% of A, B or C above) \$										
NOTE:	NOTE: Any excess of the full fee paid will be refunded if a verified statement and a refund request are filed within 2 months of the date of timely payment of a full fee. 37 CFR 1.28(a).								nd request are filed			
12.	Request for International-Type Search (37 CFR 1.104(d)) (Complete, if applicable)						lete, if applica-					
											ort for this a <sub>l</sub> takes place.	oplication at the
13.	Fee Payment Being Made At This Time											
	$\square$	Not	Enclosed									•
		☑ No filing fee is to be paid at this time. (This and the surcharge required by 37 CFR 1.16(e) can be paid subsequently.)					urcharge required					
	☐ Enclosed											
			basic filin	g fee							\$	

	П		t 1(h)) (See attached "С ИЕNT ACCOMPANYIN		
					\$
		For processing an appa a non-English languag (\$130.00; 37 CFR 1.		cation i	) \$
		Processing and retent (\$130.00; 37 CFR 1.			
		Fee for international-t (\$40.00; 37 CFR 1.2			\$
NOTE:	failing to co CFR 1.53 a basic filing	1(I) establishes a fee for promplete the application pursuant 1.78, indicate that in ordifee must be paid or the procontification under §53(d).	uant to 37 CFR 1.53(d) and ler to obtain the benefit of a	this, as v prior U.S	vell as the changes to 37 C. application, either the
			Total fees enclo	sed	\$
14.	Method o	of Payment of Fees			
	☐ Che	ck in the amount of	\$		
	☐ Cha	rge Account No. 12-04	125 in the amount of		\$
	A du	uplicate of this transmi	ttal is attached.		
NOTE:		d be itemized in such a manı	ner that it is clear for which	purpose	the fees are paid. 37 CFR
15. Aut	<i>1.22(b).</i> thorization	n to Charge Additional	Fees		
WARNING: WARNING:	Accuratel	are to be paid on filing, the y count claims, especially m rges are authorized.			eted. expected high charges, if extra
		-	_		ng additional fees by this Account No. 12-0425.
	□ 37	CFR 1.16(a), (f) or (g)	(filing fees)		
	□ 37	CFR 1.16(b), (c) and	(d) (presentation of ex	tra clair	ns)
only by ti	be paid or t he PTO in ar	these claims cancelled by ar	nendment prior to the expire 37 CFR 1.16(d)), it might be	ation of ti best not	g or on later presentation mus he time period set for responso to authorize the PTO to chargo action.
		1.16(e) (surcharge for an the filing date of the	-	fee and	or declaration on a date
	37 CFR	1.17 (application proc	essing fees)		
WARNING:	should be 1.136(a)	made only with the knowled	ge that: "Submission of the a	appropriat	r §1.136(a), this authorization e extension fee under 37 C.F.R " (Emphasis added). Notice o

		37 CFR 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to CFR 1.311(b))								
NOTE:	of Al	Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notic of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notic of allowance. 37 CFR 1.311(b).								
NOTE:	the a	37 CFR 1.28(b) requires "Notification of any change in loss of entitlement to small entity status must be filed in the application prior to paying, or at the time of paying, issue fee". From the wording of 37 CFR 1.28(b) (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.								
16.	Inst	ructions As To Overpayment	1							
		credit Account No. 12-0425	I							
		refund								
			Signature of Attorney							
Reg. N	o. 25	5,858	William R. Evans Ladas & Parry							
Tel. No	. (21	2) 708-1945	26 West 61 Street New York, NY 10023							
	Inco	Incorporation by reference of added pages								
		of prior U.S. application(s) (include stage as a continuation, division	application in this transmittal claims the benefit ding an international application entering the U.S. al or C-I-P application) and complete and attach PLICATION TRANSMITTAL WHERE BENEFIT OF LAIMED)							
		Plus Added Pages for New Application tion(s) Claimed	n Transmittal Where Benefit of Prior U.S. Applica-							
			Number of pages added							
		Plus Added Pages for Papers Referred	d to in Item 4 Above							
			Number of pages added							
	☐ Plus "Assignment Cover Letter Accompanying New Application"									
			Number of pages added							
<b></b>	Stat	ement Where No Further Pages Added	i							
		(If no further pages form a part of this page and check the following item:)	s Transmittal, then end this Transmittal with this							
	$\square$	This transmittal ends with this page.	•							

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re a	pplication of:	KEN-SHWO DAI		
Serial 1	No.:		Group No.:	
Filed:	SEPTEMBER 2, 2	003	Examiner:	
For:	HUMAN SACH-R CANCERS	ELATED GENE V	ARIANTS ASSOCIATED WITH	
Attorn	ey Docket No.:	U014797-5		
P. O. E	issioner for Patents Box 1450 adria, VA 22313-145	0		
	WRITTEN	ASSERTION OF	SMALL ENTITY STATUS	
-	Γhis is written asserti	on on the basis of:		
	personal knowledge;			
	applicant's letter of	;		
<b>⊠</b> a	applicant's agent's lette	r of September 2, 200	<u>03;</u> or	
_	other			
	efore, fees.	TIFICATION UNDER 3	above application is entitled to small entity statu 37 C.F.R. 1.8(a) and 1.10*  s Mail label number is mandatory;	
	(	Express Mail certifica		
I hereby ce	ertify that, on the date show	below, this corresponder	nce is being:	
		MAILI	ING	
	deposited with the United St Box 1450, Alexandria, VA 2		envelope addressed to the Commissioner for Patents, P. O.	
	37 C.F.R. 1.8(a)		37 C.F.R. 1.10*	
	with sufficient postage as fir	st class mail.	as "Express Mail Post Office to Address"  Mailing Label No. <u>EV327549664US</u> (mandatory)	
		TRANSMI	•	
□ t	ransmitted by facsimile to the	ne Patent and Trademark (	Office.	
Date: <u>S</u>	eptember 2, 2003	_	Sgnature	
			JENNIFER RASHKIN	
			(type or print name of person certifying)	

\*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

- NOTE: "To establish small entity status after the payment of the basic filing or national stage fee as a non-small entity, a written assertion of small entity status is required to be submitted." Notice of September 8, 2000, 65 Fed. Reg. 54604, at 54609.
- NOTE: 37 C.F.R. § 1.27(c)(1): "Assertion by writing. Small entity status may be established by a written assertion of entitlement to small entity status. A written assertion must:
  - (i) Be clearly identifiable;
  - (ii) Be signed (see paragraph (c)(2) of this section); and
  - (iii) Convey the concept of entitlement to small entity status, such as by stating that applicant is a small entity, or that small entity status is entitled to be asserted for the application or patent. While no specific words or wording are required t assert small entity status, the intent to assert small entity status must be clearly indicated in order to comply with the assertion requirement."
- NOTE: 37 C.F.R. § 1.27(c)(2): "Parties who can sign and file the written assertion. The written assertion can be signed by:
  - (i) One of the parties identified in § 1.33.(b) (e.g. an attorney or agent registered with the Office). § 3.73(b) of this chapter notwithstanding, who can also file the written assertion;
  - (ii) At least one of the individuals identified as an inventor (even though a § 1.63 executed oath or declaration has not been submitted), notwithstanding § 1.33(b)(4), who can also file the written assertion pursuant to the exception under § 1.33(b) of this part; or
  - (iii) An assignee of an undivided part interest, notwithstanding §§ 1.33(b(3) and 3.73(b) of this chapter, but the partial assignee cannot file the assertion without resort to a party identified under § 1.33(b) of this part."

35 C.F.R. § 1.33(b):

- (b) Amendment and other papers. Amendments and other papers, except for written assertions pursuant to § 1.27(c)(2)(ii) of this part, filed in the application must be signed by:
  - (1) A registered attorney or agent of record appointed in compliance with § 1.34(b);
  - (2) A registered attorney or agent not of record who acts in a representative capacity under the provisions of § 1.34(a);
  - (3) An assignee as provided for under § 3.71(b) of this chapter; or
  - (4) All of the applicants (§ 1.41(b)) for patent, unless there is an assignee of the entire interest and such assignee has taken action in the application in accordance with § 3.71 of this chapter.

Respectfully submitted

WILLIAM R. EVANS C/O LADAS & PARRY 26 WEST 61<sup>ST</sup> STREET

NEW YORK, N. Y. 10023

REG. NO.: 25,858 (212) 708-1930